

ABSTRACT OF THE DISCLOSURE

In a modular arithmetic apparatus including a plurality of product-sum circuits having a modular arithmetic function and parallelly arranged, and a
5 correction term calculation unit for calculating a correction term to be used for modular arithmetic operation in the product-sum circuits, the correction term calculation unit sequentially calculates the correction term in units of bits, and each of the
10 product-sum circuits sequentially reflects the correction term calculated by the correction term calculation unit and performs base conversion or base extension.